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12/07/2008

10-535,630,trn

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=> file caplus
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FILE COVERS 1907 - 15 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 14 Aug 2008 (20080814/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s us 206028754/pn

12/07/2008

10-535, 630.trn

L1 0 US 206028754/PN
(US206028754/PN)

=> s us 20060128754/pn
L2 1 US 20060128754/PN
(US20060128754/PN)

=> sel rn
E1 THROUGH E64 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

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STRUCTURE FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8
DICTIONARY FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8

New CAS Information Use Policies. enter HELP USAGETERMS for details.

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L3 ANSWER 1 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 ED 639331-42-7 REGISTRY
 ED Entered STN: 24 Jun 2004
 CH Butanoic acid, 3-methyl-, [(1S,3R)-3-(acetoxy)-3-[4-[(1S,3R)-3-[(4-
 hydroxypentyl)methyl]-3-oxo-4-(propylamino)butyl]amino]carboxyl]-
 2-thienylmethyl-1-(1-methylethyl)propanyl|[1S,3S)-3-methyl-2-[[1S,3R)-3-
 2-piperidinyl]carbonyl]amino]-1-oxopentylamino]methyl ester (CA INDEX
 OTHER NAMES:
 CH Tubulyan A propionate
 PS STEPHANAC
 MF C46 H72 N5 O10 S
 SR CA
 LC STN File#: CA, CAPLUS, CASREACT, TOXCENTRE, USPATFULL
 Absolute stereochemistry.

L3 ANSWER 1 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
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 1 REFERENCES IN FILE CAPLUS (1997 TO DATE)

PAGE 1-A

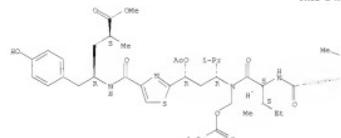


PAGE 1-B



L3 ANSWER 2 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 ED 639331-41-7 REGISTRY
 ED Entered STN: 24 Jun 2004
 CH Benzoisopropenoic acid, 3-[[1S,3R)-3-(acetoxy)-4-methyl-3-
 [[1S,3S)-3-methyl-2-[[1S,3R)-3-methyl-2-piperidinyl]carbonyl]amino]-1-
 thienylmethyl]carbonyl]amino]-4-oxo-4-methyl-1-methyl-1-
 pentyl ester (CA INDEX NAME)
 OTHER NAMES:
 CH Tubulyan A methyl ester
 PS STEPHANAC
 MF C44 H67 N5 O10 S
 SR CA
 LC STN File#: CA, CAPLUS, CASREACT, TOXCENTRE, USPATFULL
 Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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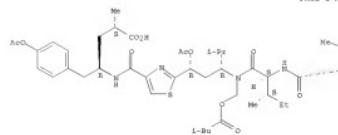
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 ED 697742-92-7 REGISTRY
 ED Entered STN: 24 Jun 2004
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 (acetoxy)-4-methyl-2-[[1S,3R)-3-methyl-2-[[1S,3R)-3-methyl-2-
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 pentyl ester (CA INDEX NAME)

PS STEPHANAC
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 SR CA
 LC STN File#: CA, CAPLUS, CASREACT, TOXCENTRE, USPATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

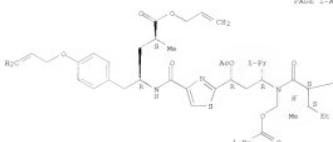
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 PS STEAMWASH
 NF CQ H3 NO OLO S
 SA
 LC UV Filter, CA CHIPS CHIPSST CHIPSSTER BHEATL

420-0422-000000000000



13 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

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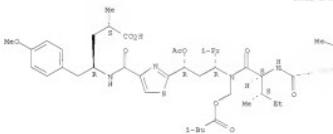
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

LJ ANSWER 5 OF 94 REGISTRY COPYRIGHT 2008 ACS on 979
49792-87-1 REGISTRY
ED Entered 5TH on 23 Jun 2004
CS Benzisopentenimic acid, y-[[2-[(1R,3S)-1-(acetylxy)-4-methyl-3-
[1S,2S]-3-isopropyl-1-oxobutyl-2-[(2R)-1-methyl-2-piperimidinyl]carbonyl]amino]-1-
[3-oxo-2-oxazolidinyl]propyl]-3-(acetylxy)-1-exobutyryl]amino]pentyl]-4-
[acetylxy]benzene, 4-acetoxy-4-methoxy-a-methyl-, (4S,5R)-
LCA-7372-1 CAMEL

PS STEPHENSON
MF C44 RET NS Q10 S
BR CA

Absolute stereochemistry

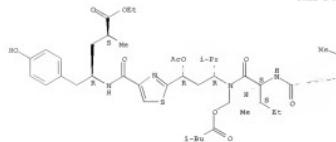


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LJ ANSWER 6 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN
 69779-79-1 REGISTRY
 ED Entered STM 23 Jun 2004
 CM Benzenepentacarboxylic acid, γ -[[2-[1-(1R,3S)-1-(acetoxy)-4-methyl-3-oxo-3-phenyl-3-oxopropyl]-1-(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-acetoxy-1-(3-methyl-1-oxoethyl)amino-1-pentyl]-4-(4-isopropenylbenzylcarbonylmethyl)-4-hydroxy- α -methyl- ethyl ester,
 (E,E)-DIPENYL-NMPE

PS STEREOSEARCH
MF C43 H69 N5 010 S
SR CA

Absolute stereochemistry



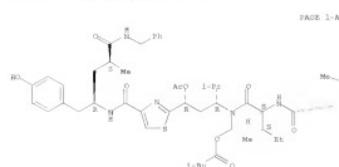
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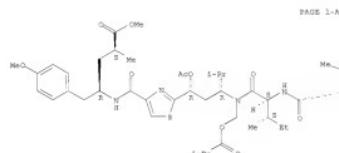
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 ED 631771-03-4 REGISTRY
 ED Entered STN: 23 Jun 2004
 CH Benzeneacetic acid, 3-methyl-, [(1S,3R)-3-(acetoxy)oxy]-3-[4-[(1S,3R)-3-[(4-
 hydroxypheophenylmethyl)-3-methyl-1-oxo-4-(phenylmethoxyimino)butyl]amino]ox-
 idbenzyl]-2-thienyl]-5-[(methylsulfonyl)propyl][12S,2S)-3-methyl-2-[[[(2R)-3-
 methyl-1-oxo-4-(phenylmethyl)-3-methyl-1-oxo-4-(phenylmethoxyimino)butyl]amino]methyl ester (CA
 INDEX NAME)
 CH Tubulyan A benzylamine
 PS STEREOSEARCH
 MF C41 H62 N6 O9 S
 SR CA
 LC STN File: CA, CASPLUS, CASREACT, TOCENTER, USPATFULL
 Absolute stereochemistry. Rotation (+).



PAGE 1-B



L3 ANSWER ID OF 64 REGISTRY COPYRIGHT 2000 ACS on STN
 ED 631771-03-4 REGISTRY
 ED Entered STN: 23 Jun 2004
 CH Benzeneacetic acid, 3-methyl-, [(1S,3R)-3-(acetoxy)oxy]-3-[4-[(1S,3R)-3-
 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carboxy]l]amino]-1-
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carboxy]l]amino]-4-
 thiophenyl]carboxy]-4-methoxy-3-methyl-1-oxo-4-phenyl ester,
 (as,3R)- (CA INDEX NAME)
 CH Tubulyan A methyl ether methyl ester
 PS STEREOSEARCH
 MF C41 H62 N6 O9 S
 SR CA
 LC STN File: CA, CASPLUS, CASREACT, TOCENTER, USPATFULL
 Absolute stereochemistry.



PAGE 1-B



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 2 REFERENCES IN FILE CASPLUS (1997 TO DATE)

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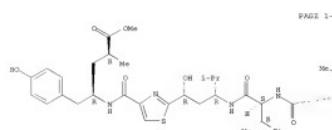
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1 REFERENCES IN FILE CASPLUS (1997 TO DATE)

L3 ANSWER ID OF 64 REGISTRY COPYRIGHT 2000 ACS on STN
 ED 631771-03-4 REGISTRY
 ED Entered STN: 23 Jun 2004
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 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carboxy]l]amino]-1-
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carboxy]l]amino]-4-
 thiophenyl]carboxy]-4-methoxy-3-methyl-1-oxo-4-phenyl ester,
 (as,3R)- (CA INDEX NAME)
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 MF C41 H62 N6 O9 S
 SR CA
 LC STN File: CA, CASPLUS, CASREACT, TOCENTER, USPATFULL
 Absolute stereochemistry.



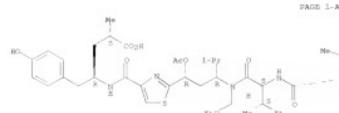
PAGE 1-B

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LJ ANSWER 17 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN
 891224-80-0 REGISTRY
 ED Entered STN: 22 Jun 2004
 CH Benzoseptenoic acid, 4-hydroxy-[[2-[(1R,2S)-1-(acetylxy)-2-[(ethoxyethyl)oxy]ethyl]amino]-2-[(1R)-1-methyl-2-(piperidinyl)oxy]ethyl]amino]-4-hydroxy-a-methyl-1-(4-methylpentyl)-1-oxo-1,3-dihydro-2H-1,2,3-thiadiazole-4-carboxylic acid
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 Absolute stereochemistry.

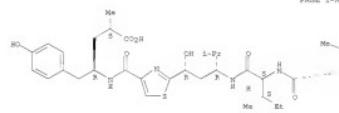


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PAGE 1-B

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

LJ ANSWER 19 OF 64 REGISTRY COPYRIGHT 2008 ACS ON STN
 891224-80-0 REGISTRY
 ED Entered STN: 22 Jun 2004
 CH Benzoseptenoic acid, 4-hydroxy-[[2-[(1R,2R)-1-(hydroxy-4-methyl-3-[(1S,2S)-3-methyl-2-[(1R)-1-methyl-2-(piperidinyl)carbonyl]amino]-1-oxo-1,3-dihydro-2H-1,2,3-thiadiazole-4-carboxylic acid]oxy]ethyl]amino]-a-methyl-1-(4-methylpentyl)-1-oxo-1,3-dihydro-2H-1,2,3-thiadiazole-4-carboxylic acid
 (CA INDEX NAME)
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 MF C41 H61 N5 O9 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXENTER, USPATFULL
 Absolute stereochemistry. Rotation (-).



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PAGE 1-B

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

LJ ANSWER 21 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STN

RN 697236-77-4 REGISTRY

ED Entered STN: 22 Jun 2004

CN Benzoseptenzoic acid, γ -[[2-((13,2S)-1-(acetoxy)-4-methyl-3-[(2S,3R)-2-methyl-3-(2-oxo-2-phenyl-2-piperidinyl)oxo]benzyl)amino]-1-acetoxy-1,3-dimethyl-4-hydroxy-1-(4-hydroxyl)carbonyl]amino]-4-hydroxy- α -methyl- ω -methyl- (CA INDEX NAME)

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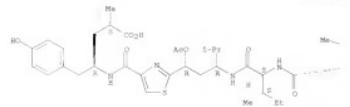
P2 C17 H35 N5 O9 S

SS CA

LC STN File: CA, CAPLUS, CARBACT, TOCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LJ ANSWER 22 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STN

RN 369870-41-7 REGISTRY

ED Entered STN: 22 Jun 2004

CN Benzoseptenzoic acid, γ -[[2-((13,2S)-1-(acetoxy)-4-methyl-3-[(2S,3R)-3-methyl-2-[(2S,3R)-2-methyl-3-(2-oxo-2-phenyl-2-piperidinyl)oxo]benzyl)amino]-1-acetoxy-1,3-dimethyl-4-hydroxy-1-(4-hydroxyl)carbonyl]amino]-4-hydroxy- α -methyl- ω -methyl- (CA INDEX NAME)

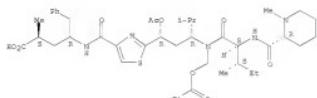
T2 STRENGSEARCH

P2 C17 H35 N5 O9 S

SS CA

LC STN File: CA, CAPLUS, TOCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO M99-SPECIFIC DERIVATIVES IN FILE CA

4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LJ ANSWER 23 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STN

RN 697236-76-3 REGISTRY

ED Entered STN: 22 Jun 2004

CN Benzoseptenzoic acid, γ -[[2-((13,2S)-1-(acetoxy)-4-methyl-3-[(2S,3R)-2-methyl-3-(2-oxo-2-phenyl-2-piperidinyl)oxo]benzyl)amino]-1-acetoxy-1,3-dimethyl-4-hydroxy- α -methyl- ω -methyl- (CA INDEX NAME)

T2 STRENGSEARCH

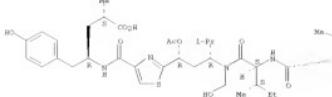
P2 C17 H35 N5 O9 S

SS CA

LC STN File: CA, CAPLUS, CARBACT, TOCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LJ ANSWER 24 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STN

RN 369935-58-8 REGISTRY

ED Entered STN: 22 Jun 2004

CN Benzoseptenzoic acid, γ -[[2-((13,2S)-1-(acetoxy)-4-methyl-3-[(2S,3R)-3-methyl-2-[(2S,3R)-2-methyl-3-(2-oxo-2-phenyl-2-piperidinyl)oxo]benzyl)amino]-1-acetoxy-1,3-dimethyl-4-hydroxy- α -methyl- ω -methyl- (CA INDEX NAME)

T2 STRENGSEARCH

P2 C17 H35 N5 O9 S

SS CA

LC STN File: CA, CAPLUS, TOCENTER, USPATFULL

LJ ANSWER 24 OF 64 REGISTRY COPYRIGHT 2000 ACS ON STN

RN 369935-58-8 REGISTRY

ED Entered STN: 22 Jun 2004

CN Benzoseptenzoic acid, γ -[[2-((13,2S)-1-(acetoxy)-4-methyl-3-[(2S,3R)-3-methyl-2-[(2S,3R)-2-methyl-3-(2-oxo-2-phenyl-2-piperidinyl)oxo]benzyl)amino]-1-acetoxy-1,3-dimethyl-4-hydroxy- α -methyl- ω -methyl- (CA INDEX NAME)

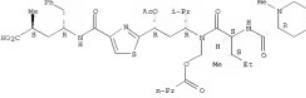
T2 STRENGSEARCH

P2 C17 H35 N5 O9 S

SS CA

LC STN File: CA, CAPLUS, TOCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO M99-SPECIFIC DERIVATIVES IN FILE CA

7 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LJ ANSWER 28 OF 64 REGISTRY COPYRIGHT 2000 ACS on STN

REGISTRY 2000 05-04-05 REGISTRY

Entered 2001 10 May 1998

CNH Pyridinium, 2,3,4,5,6-penta-*tert*-butyl-1-(acetoxy)-4-methyl-3-((1S,2R)-2-methyl-1-(2S,3R)-1-methyl-2-(propanoyl)oxiranoyl)azirine-1-oxo-2-((3-methyl-1-oxidoxy)methyl)azirine-4-((2S)-2-methyl-1-oxidoxy)methyl)-4-((2S)-2-methyl-1-oxidoxy)methyl-1-oxidoxy- (CA INDEX NAME)

OTHER NAMES:

CN 1-Bu 2-Me 3-AcO 4-Me

PF 2-Me 3-AcO 4-Me

SF 1-Bu 2-Me 3-AcO 4-Me

LC STM Files: N00625, CA, CAPSUS, CASREACT, TOX CENTER, USPAFULL

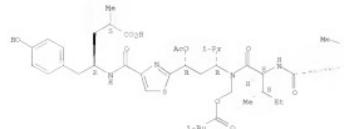
Absolute stereochemistry.

LJ ANSWER 28 OF 64 REGISTRY COPYRIGHT 2000 ACS on STN

15 REFERENCES IN FILE CAPSUS (1997 TO DATE)

(Continued)

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

33 REFERENCES IN FILE CA (1997 TO DATE)

5 REFERENCES TO MOB-SPECIFIC DERIVATIVES IN FILE CA

LJ ANSWER 29 OF 64 REGISTRY COPYRIGHT 2000 ACS on STN

REGISTRY 2000 05-04-05 REGISTRY

Entered 2001 10 May 1998

CNH Pyridinium, 2,3,4,5,6-penta-*tert*-butyl-1-fluoro-, salts with trifluoroethanesulfonic acid (1:1) (NCI) (CA INDEX NAME)OTHER NAMES: CNH Methanesulfonic acid, trifluoro-, ion(1-), 2,3,4,5,6-penta-*tert*-butylchloropyridiniumCXN Pyridinium, 2,3,4,5,6-penta-*tert*-butylchloropyridinium triflateCNH Tetra-*tert*-butylpyridinium sulfateCNH Tetra-*tert*-butylpyridinium triilate

MF C15 H 24 F 8

SF C15 F 8 H 24

LC STM Files: HELSTROM, CA, CAPSUS, CASREACT, CHEMINFOFORMA, TOX CENTER, USPAFULL
(*file contains numerically searchable property data)

CN 1

CNH 130433-69-2

CMF C5 C15 F 8



CN 2

CNH 17181-39-8

CMF C12 E25 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

33 REFERENCES IN FILE CA (1997 TO DATE)

13 REFERENCES IN FILE CAPSUS (1997 TO DATE)

LJ ANSWER 30 OF 64 REGISTRY COPYRIGHT 2000 ACS on STN

REGISTRY 2000 05-04-05 REGISTRY

Entered 2001 20 May 1998

CNH 1-*Propanaminium, N,N,N-tripropyl-, (2-4)-tetra-*tert*-butylmethanethate(1-) (1:1) (CA INDEX NAME)*OTHER NAMES: CNH 1-*Propanaminium, N,N,N-tripropyl-, (7-4)-tetra-*tert*-butylpropyl-*

CNH Butanethate (BuO4-), (7-4)-, N,N,N-tripropyl-1-propanaminium (9CI)

CXN OTHER NAMES

CNH Tetra-*tert*-butylammonium pentanethateCNH Tetra-*tert*-butylammonium pentane-1-thate(1-)CNH Tetrapropylammonium tetra-*tert*-butylmethanethateCNH Tetrapropylammonium tetra-*tert*-butylmethanethate(1-)

MF C12 H28 N . C4 Rn

SF CAS Client Services

LC STM Files: HELSTROM, CA, CAPSUS, CASREACT, CHEMINFOFORMA, CHEMIST, CSCHEM, MEDLINE, TOX CENTER, USPAFULL

CN 1

CNH 143933-21-2

CMF C12 H28 N

CCCI CCS



CN 2

CNH 13010-31-6

CMF C12 E25 H



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

164 REFERENCES IN FILE CA (1997 TO DATE)

2 REFERENCES TO MOB-SPECIFIC DERIVATIVES IN FILE CA

146 REFERENCES IN FILE CAPSUS (1997 TO DATE)

10-535, 630.trn

$$\lambda q^{\dots} \odot^{\dots} \lambda q$$

7965 REFERENCES IN FILE CA (1967 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7876 REFERENCES IN FILE CARSUS (1967 TO DATE)

THE STRUCTURE DIAGRAM IS NOT AVAILABLE.

PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

14035 REFERENCES IN FILE CA (1907 TO DATE)
138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

Ag⁺-O²⁻-Ag

PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

7065 REFERENCES IN FILE CA (1907 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7076 REFERENCES IN FILE CAPLUS (1907 TO DATE)

DATA AVAILABLE IN THE "PROP" FORMAT**
2303 REFERENCES IN FILE CA (1907 TO DATE)
40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2305 REFERENCES IN FILE CARLOS (1907 TO DATE)

"PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT"

2653 REFERENCES IN FILE CA (1907 TO DATE)
54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2656 REFERENCES IN FILE CARLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

PROPERTY DATA AVAILABLE IN THE RECORD FORMATS

2303 REFERENCES IN FILE CA (1907 TO DATE)
40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2305 REFERENCES IN FILE CAPLUS (1907 TO DATE)

10-535,630.trn

$$B \leq \frac{1}{2} \pi^2 n^2$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4606 REFERENCES IN FILE CA (1907 TO DATE)
 66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4607 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 6 REFERENCES IN FILE CACD (PRIOR TO 1967)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19571 REFERENCES IN FILE CA (1907 TO DATE)
419 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
19605 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CA(CD) (PRIOR TO 1967)

PROPERTY DATA AVAILABLE IN THE 1990 FORMATS

5388 REFERENCES IN FILE CA (1907 TO DATE)
62 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5413 REFERENCES IN FILE CAPLUS (1907 TO DATE)

PROPERTY DATA INTEGRITY IN THE 'EPCIS' FORMAT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26814 REFERENCES IN FILE CA (1997 TO DATE)
1185 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5520 REFERENCES TO ISSN-CITED (1997 TO DATE)

12/07/2008

10-535,630.trn

L3 ANNUAL 44 OF 44 REGISTRY COPYRIGHT 2008 ACS ON 27W (Continued)

RyC=CH₂-OR

PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

23224 REFERENCES IN FILE CA (JANY TO DATE)
17 REFERENCES IN NEW-SPECIFIC DERIVATIVES IN FILE CA
23400 REFERENCES IN FILE CAPLUS (JAN97 TO DATE)
31 REFERENCES IN FILE CASD (PRIOR TO 1967)

12/07/2008

10-535,630.trn

=>
Connecting via Winsock to STN

Welcome to STN International! Enter x:x

Thank you for accessing STN

Our services are currently unavailable. The regularly scheduled hours of operations are:

US Eastern time: Sunday from 01:00 (1:00 AM) until
Saturday at 22:00 (10:00 PM)

On the first Saturday of each month, STN is available only until 17:00 (5:00 PM).

Tokyo time: Sunday from 14:00 (2:00 PM) until
Sunday at 11:00 (11:00 AM)

On the Sunday of the first weekend of each month, STN is available only until 06:00 (6:00 AM).

Additionally, representatives from the Help Desk and Customer Service may be reached from 08:00 (8:00 AM) to 20:00 (8:00 PM) US Eastern time, Monday through Friday, at the following telephone numbers:

Help Desk - (800) 848-6533 North America
- (614) 447-3698 Elsewhere

Customer Service - (800) 753-4227 North America
- (614) 447-3731 Elsewhere

We can also be contacted via email at HELP@CAS.ORG.

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

12/07/2008

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Thank you for accessing STN

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Tokyo time: Sunday from 14:00 (2:00 PM) until Sunday at 11:00 (11:00 AM)

On the Sunday of the first weekend of each month, STN is available only until 06:00 (6:00 AM).

Additionally, representatives from the Help Desk and Customer Service may be reached from 08:00 (8:00 AM) to 20:00 (8:00 PM) US Eastern time, Monday through Friday, at the following telephone numbers:

Help Desk - (800) 848-6533 North America
- (614) 447-3698 Elsewhere

Customer Service - (800) 753-4227 North America
- (614) 447-3731 Elsewhere

We can also be contacted via email at HELP@CAS.ORG.

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajem1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 AUG 15 CAOLD to be discontinued on December 31, 2008

12/07/2008

10-535, 630, trn

| | | | | |
|------|----|-----|----|---|
| NEWS | 3 | OCT | 07 | EPFULL enhanced with full implementation of EPC2000 |
| NEWS | 4 | OCT | 07 | Multiple databases enhanced for more flexible patent number searching |
| NEWS | 5 | OCT | 22 | Current-awareness alert (SDI) setup and editing enhanced |
| NEWS | 6 | OCT | 22 | WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications |
| NEWS | 7 | OCT | 24 | CHEMLIST enhanced with intermediate list of pre-registered REACH substances |
| NEWS | 8 | NOV | 21 | CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present |
| NEWS | 9 | NOV | 26 | MARPAT enhanced with FSORT command |
| NEWS | 10 | NOV | 26 | MEDLINE year-end processing temporarily halts availability of new fully-indexed citations |
| NEWS | 11 | NOV | 26 | CHEMSAFE now available on STN Easy |
| NEWS | 12 | NOV | 26 | Two new SET commands increase convenience of STN searching |
| NEWS | 13 | DEC | 01 | ChemPort single article sales feature unavailable |

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 14:52:23 ON 07 DEC 2008

=> file reg
COST IN U.S. DOLLARS

| | SINCE FILE | TOTAL |
|---------------------|------------|---------|
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 14:52:42 ON 07 DEC 2008
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

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10-535,630.trn

DICTIONARY FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

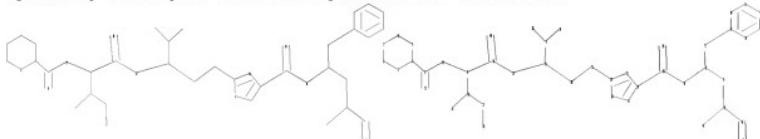
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10-535,630.str



chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 27 28 29 30 31 32 39
40 41 42 43 44
ring nodes :
1 2 3 4 5 6 22 23 24 25 26 33 34 35 36 37 38
chain bonds :
6-7 7-8 7-27 8-9 9-10 9-14 10-11 10-12 12-13 14-15 14-44 15-16 16-17
16-20 17-18 17-19 20-21 21-22 24-28 28-29 28-30 30-31 31-32 31-39 32-33
39-40 40-41 40-42 42-43
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 22-23 22-26 23-24 24-25 25-26 33-34 33-38
34-35 35-36 36-37 37-38
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-27 8-9 14-15 14-44 15-16 22-23 22-26
23-24 24-25 25-26 28-29 28-30 30-31 42-43
exact bonds :
6-7 9-10 9-14 10-11 10-12 12-13 16-17 16-20 17-18 17-19 20-21 21-22
24-28 31-32 31-39 32-33 39-40 40-41 40-42

12/07/2008

10-535,630.trn

normalized bonds :
33-34 33-38 34-35 35-36 36-37 37-38

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:Atom 34:Atom 35:Atom
36:Atom 37:Atom 38:Atom 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 14:53:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 360 TO 1080
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 14:53:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 753 TO ITERATE

100.0% PROCESSED 753 ITERATIONS 81 ANSWERS
SEARCH TIME: 00.00.01

L3 81 SEA SSS FUL L1

=> s l3
SAMPLE SEARCH INITIATED 14:53:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS 4 ANSWERS

12/07/2008

10-535, 630.trn

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 360 TO 1080
PROJECTED ANSWERS: 4 TO 200

L4 4 SEA SSS SAM L1

=> file caplus
COST IN U.S. DOLLARS

| | SINCE FILE | TOTAL |
|---------------------|------------|---------|
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 178.82 | 179.03 |

FILE 'CAPLUS' ENTERED AT 14:53:40 ON 07 DEC 2008
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FILE COVERS 1907 - 7 Dec 2008 VOL 149 ISS 24
FILE LAST UPDATED: 5 Dec 2008 (20081205/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 13
L5 35 L3

=> s 13 and (py<2003 or ay<2003 or pry<2003)
35 L3

22961955 PY<2003
4500736 AY<2003
3969189 PRY<200

L6 / L3 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 1010 abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

12/07/2008

10-535,630.trn

$\text{Cl}-\text{C}_6\text{-alkyl}$: 7 = H_2O , CH_3 (preferably HCl in dioxane) or by a hard base (NaBH_4) in alc. [aspx: MeOH , aqulation, redn., oxime, ...], alkylation, halogenation, esterification, etherification or reaction with Grignard or alkylolithium reagents. Thus, *Tobamycin A* Benzylidene (III) was prep'd. from *Tobamycin A* via condensation of the isobutyl mixed anhydride with PhCH_2MgBr in Et_2O . $\text{BRN}(\text{CRN}2)2$.

IT (39772-87-1P)
 E11 (BPN (Biopharmaceutical preparation); IMF (Industrial manufacture); SPPN
 (Synthetic preparation); TEC (Therapeutic use); BICOL (Biological study);
 FEPF (Preparation); USES (Uses);
 [manufacture of tubocyclin derivs. via acid or base cleavage of the
 ester
 side chain])

32) 69778-27-1 CAPROS
 C20-pentamethylene acid, γ -[(2-[{[1\text{H}_3]K_3}]-1-(acetoxy)-4-methyl-3-[{[2\text{H}_3,3\text{H}_3]}-3-methyl-1-2-[{[1\text{H}_3]}-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxoencyl]-(3-methyl-1-carboxyethyl)amino]propanoyle]-4'-thiaryl]carbonyl]alanimo)-4'-methoxy-a-methyl-, (ω , β H)-
 (CA INDEX NAME)

Absolute stereochemistry.

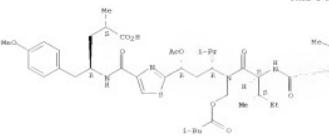
16 ANSWER 2 OF 7 CAPTION COPYRIGHT 2009 ACS on 87% (Continued)

PAGE 1-A

Absolute stereochemistry

PAGE 1-A

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



PAGE 1-1

IT 697232-E 69 697232-76-SP
 RU (Industrial manufacture); KCT (Reagent); SPM (Synthetic preparation);
 (Preparation); TAC (Reagent or standard); BPC (Biological study); PREP
 (Manufacture of tetracycline derivative); ADR (Adverse reaction);
 (Manufacture of tetracycline derivative); via acid or base cleavage of the
 ester group

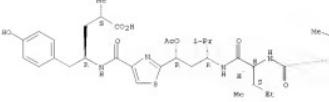
Abenists stereochemistry: Rotation (-)-

1.6 ANSWER 2 OF 7 CAP108 COPYRIGHT 2008 ACS on 878 (Continued)

PAGE 1-2

NN 697236-77-4 CAPROB
 CN Benzenepropanoate acids, γ -[[{[2-((1R,3S)-1-(acetylonyl)-4-methyl-3-[[[2S,3S]-3-hydroxy-2-[[[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino)pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-6-methyl-, (E,S)-YR- (CA INDEX NAME)

PAGE 1-7



14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

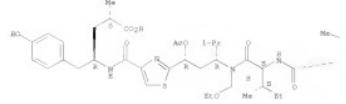
PAGE 1-B



338 697236-82-1 CAPLOS
Benzenepentanoic acid, γ -[[2-[(1*X*,*X*)-1-(acetoxy)-3-[(ethoxycarbonyl)oxy]propyl]-1-[(2*X*,3*X*)-1-methyl-2-[(2*X*)-1-methylethoxy]carbonylmethyl]amino]-4-methyl-4-thiazoxy[1-oxobutyl]amino]-4-hydroxy-*a*-methyl-1-*X*-butyl- (*Xa*,*Yb*) - (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



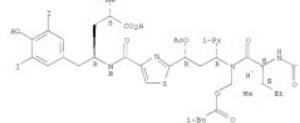
PAGE 1-B



339 697236-83-2 CAPLOS
Benzenepentanoic acid, γ -[[2-[(1*X*,*X*)-1-(acetoxy)-4-methyl-3-[(2*X*,1*X*)-3-methyl-2-[(2*X*)-1-methyl-2-piperidinyl]carbonyl]amino]-3-oxoazoly[1-[(2*X*)-1-oxobutyl]methoxy]methyl]amino]pentyl-4-*a*-methyl-1-*X*-butyl- (*Xa*,*Yb*) - (CA INDEX NAME)

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



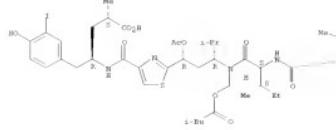
340 697236-84-4 CAPLOS
Benzenepentanoic acid, γ -[[2-[(1*X*,*X*)-1-(acetoxy)-4-methyl-3-[(2*X*,3*X*)-1-methyl-2-[(2*X*)-1-methylethoxy]carbonylmethyl]amino]-3-oxoazoly[1-[(2*X*)-1-oxobutyl]methoxy]methyl]amino]pentyl-4-*a*-methyl-1-*X*-butyl- (*Xa*,*Yb*) - (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
[thiazolyl]carbonylamino]-4-hydroxy-3-lacto-*a*-methyl-, (*Xa*,*Yb*) - (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



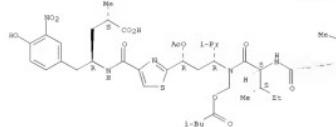
PAGE 1-B



341 697236-84-7 CAPLOS
Benzenepentanoic acid, γ -[[2-[(1*X*,*X*)-1-(acetoxy)-4-methyl-3-[(2*X*,3*X*)-3-methyl-2-[(2*X*)-1-methyl-1-piperidinyl]carbonyl]amino]-3-oxoazoly[1-[(2*X*)-1-oxobutyl]methoxy]methyl]amino]pentyl-4-*a*-methyl-1-*X*-butyl- (*Xa*,*Yb*) - (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

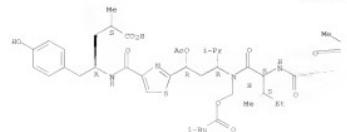


342 697236-84-8 CAPLOS
Benzenepentanoic acid, γ -[[2-[(1*X*,*X*)-1-(acetoxy)-4-methyl-3-[(2*X*,1*X*)-3-methyl-2-[(2*X*)-1-methyl-2-piperidinyl]carbonyl]amino]-3-oxoazoly[1-[(2*X*)-1-oxobutyl]methoxy]methyl]amino]pentyl-4-*a*-methyl-1-*X*-butyl- (*Xa*,*Yb*) - (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 2 OF 7 CARLOS COPYRIGHT 2008 ACS on STN (Continued)

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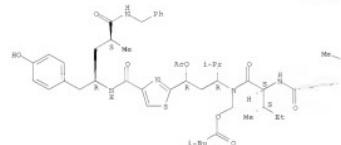


322 69723-87-6 CAPLOS
 C2 benzoic amide, 4-hydroxy- γ -[[2-[(3R,7S)-3-methyl-2-[[2(R)-1-methyl-2-(piperidinyl)carbonyl]amino]-1-oxoethyl]amino]methyl]-4-thiazoly[carbonylamino]- α -methyl-, methyl ester, (6S)-viii - (CA INDEX NAME)

Abrusiva sternocleidomastix

16 APPENDIX 2 OF 7 CARBON COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-2



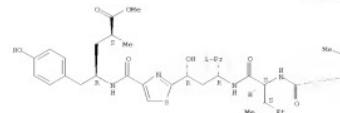
PAGE 1-3



320 637-30-7 CARPUS
 C6S Benzenepentanoic acid, γ -[[2-[(2R,3S)-1-(acetoxy)-4-methyl-3-
 [[2S,2S]-3-methy-1-[[2(R,3S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 oxopropyl]-[3-methy-1-oxobutyl]carbonyl]amino]pentyl-4-
 thia-1-oxo-1-carbonyl]amino]-4-hydroxy-4-methyl-2-propyl ester,
 [a]_D +81.1 ICA INDEX NAME

Absolute approach to

PAGE 3-8



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RN 67755-34-0 CAS#65
 CN Butanoic acid, 3-methyl-, [[(1R,3S)-3-(acetyl oxy)-3-[4-[(1R,2S)-1-[(4-hydroxyphenyl)imino]ethyl]-3-oxetyl]propyl]-[1-[(phenylmethyl)amino]methyl]carbonyl]-2-thiazolyl-1-[1-(methylsulfonyl)propyl]](2S,3S)-3-ethyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]-1-oxoethyl]methyl ester (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

1-6 ANSWER 3 OF 7 CAPTION COPYRIGHT 2008 NCS on 87W (Continued)

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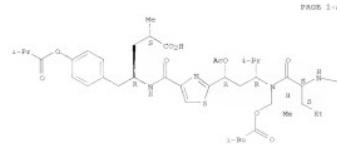
PAGE 1-2



BN 6972-77-7 CN CAJL08
 CN Benzenepiperimidinone acid, γ -{[2-[{(1R,3R)-1-(acetyloxy)-4-methyl-3-
 [[(2S,3S)-3-methylbutyl]-2-[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 oxopropoxy]-1-(3-methyl-1-oxobutoxy)ethyl}naphthalen-1-yl-4-
 thiazolyl]carbonyl]amino}- ω -methyl-1-4-(2-methyl-1-oxopropoxy)-,
 -(5S,5R)- (C1 INDEX NUMBER)

Absolute stereochemistry: Rotation (+).

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



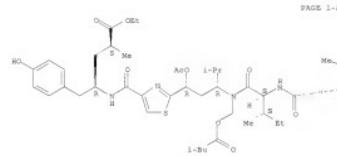
PAGE 1-A

PAGE 1-B

NS 697762-79-D CAPLOS
 CH Butanoic acid, 7-(*t*-butyl)-, [(1S,3R)-3-(acetoxy)-3-[(1R,2S)-4-
 (acetoxymethyl)aminocarbonyl]-2-thiazolyl]-1-(1-methyl-1-ethylpropyl)[(2S,3S)-3-
 methyl-2-[(1R,2S)-1-methyl-1-piperidinyl]carbonyl]anino]-1-
 cyclopentylmethyl ester (CA INDEX NAME)

Absolute stereochemistry:

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



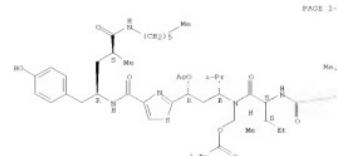
PAGE 1-A

PAGE 1-B

NS 697762-89-3 CAPLOS
 CH Butanoic acid, 7-(*t*-butyl)-, γ -[(1S,3R)-1-(acetoxy)-4-methyl-3-
 [(2S,3S)-3-methyl-2-[(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
 cyclopentyl]-[(3-acetoxy-3-methoxy-methyl)-2-(4-methyl-1-pentyl)-4-
 thiazolyl]anino]-4-methyl-2-[(1R,2S)-1-propanoyl-1-pentyloxy]-
 2-propanoyl-1-yl ester, (*ab*,*yh*) - (CA INDEX NAME)

Absolute stereochemistry:

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



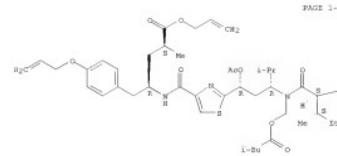
PAGE 1-A

PAGE 1-B

NS 697762-79-3 CAPLOS
 CH Butanoic acid, γ -[(1S,3R)-3-methyl-2-[(1R,2S)-4-methyl-3-
 (acetoxymethyl)-2-thiazolyl]-1-(1-methyl-1-oxo-1-
 carbonyl)-1-oxo-1-carbonyl]amino]-1-methyl-1-
 (4-methyl-1-oxo-1-oxo-4-hydroxy-3-methyl-1-ethyl ester,
 (*ab*,*yh*) - (CA INDEX NAME)

Absolute stereochemistry:

14 ANSWER 2 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



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PAGE 1-B

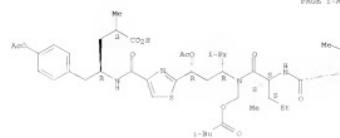
NS 697762-92-8 CAPLOS
 CH Butanoic acid, 7-(*t*-butyl)-, 4-(acetoxy)- γ -[(1S,3R)-1-(acetoxy)-4-
 methyl-2-[(1S,3S)-3-methyl-2-[(1R,2S)-1-methyl-1-
 piperidinyl]carbonyl]amino]-1-(acetoxy)-1-methyl-1-
 (4-methyl-1-oxo-1-oxo-4-hydroxy-3-methyl-1-ethyl ester,
 (*ab*,*yh*) - (CA INDEX NAME)

Absolute stereochemistry:

12/07/2008

10-535,630.trn

14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



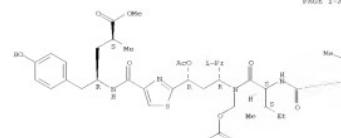
PAGE 1-B



223 69393-61-4 CAPLUS
CH Butanoic acid, 3-methyl-, γ -[(1S,2R)-1-(acetoxy)-4-methyl-2-oxo-3-[(2R,3S)-3-methyl-2-[[1(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopropyl]-[1(3S)-3-methyl-2-[(acetoxymethyl)amino]pentyl]-4-hydroxy- α -methyl-, methyl ester, (a₁,y₁) - (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



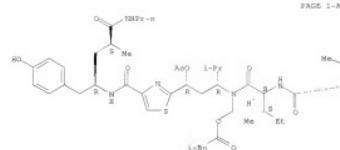
PAGE 1-B



223 69393-62-7 CAPLUS
CH Butanoic acid, 3-methyl-, γ -[(1R,2R)-3-(acetoxymethyl)-3-[(1R,2R)-1-(4-[(4-[(4-[(2-piperidinyl)-1-(1-methyl-2-piperidinyl)propyl]-2-[(propylamino)butyl]amino]carbonyl)-2-thienazolyl]-1-(1-methyl-2-piperidinyl)propyl]-2S,3S)-3-methyl-2-[[1(2S)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopropyl)methyl] ester (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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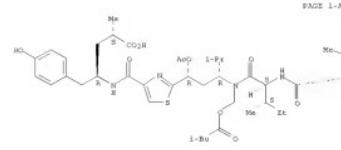


223 205354-88-5, Tubolyxan A 205354-87-6, Tubolyxan B 205354-89-7, Tubolyxan C 205354-86-8, Tubolyxan D 303923-58-9, Tubolyxan E 308870-47-1, Tubolyxan F 3212-90-0 (Trade name); (Antifungal use); BTOL (Biological study); RACT (Protective reaction); TDXD (New); TGA (Thermal analysis); manufacture of tubolyxan derive, via acid or base cleavage of the ester side chain)

CH 205354-88-5 CAPLUS
CH Benzenepentanoic acid, γ -[[1-((1R,2R)-1-(acetoxy)-4-methyl-3-[(2S,3S)-3-methyl-2-[[1(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopropyl)-[1(3S)-3-methyl-2-[(acetoxymethyl)amino]pentyl]-4-hydroxy- α -methyl-, (a₁,y₁) - (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



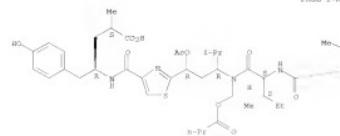
PAGE 1-B



CH 205354-87-6 CAPLUS
CH Benzenepentanoic acid, γ -[[1-((1R,2R)-1-(acetoxy)-4-methyl-3-[(2S,3S)-3-methyl-2-[[1(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopropyl)-[1(3S)-3-methyl-2-[(acetoxymethyl)amino]pentyl]-4-hydroxy- α -methyl-, (a₁,y₁) - (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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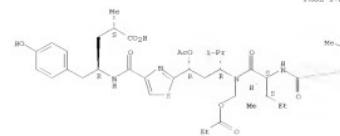
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225 325304-98-7 CAPLUS
CSB Benzene-1,4-diamine, γ -[[2-((1S,3R)-1-(4-methyl-3-oxopropyl)-4-methyl-2-[(2S,3S)-3-methyl-2-[(1S,2S)-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxopropyl]-[1-(oxopropoxy)ethyl]amino]pentyl]-4-(thiabutyl)carbonylamino)-4-hydroxy- α -methyl-, (m, yb)- (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



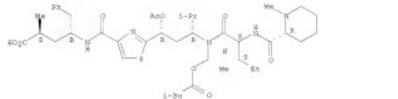
PAGE 1-A

PAGE 1-B

3293935-57-7 CAPLUS
CSB Benzene-1,4-diamine, γ -[[2-((1S,3R)-1-(4-methyl-3-oxopropyl)-4-methyl-2-[(2S,3S)-3-methyl-2-[(1S,2S)-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxopropyl]-[3-methyl-1-oxododecanoyl]amino]pentyl]-4-(thiabutyl)carbonylamino)- α -methyl- α -(oxabutyl)amino- α -methyl-, (m, yb)- (CA INDEX NAME)

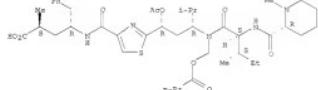
Absolute stereochemistry. Rotation (+).

14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



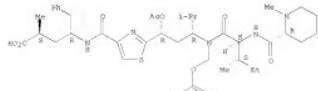
226 325310-28-3 CAPLUS
CSB Benzene-1,4-diamine, γ -[[2-((1S,3R)-1-(4-methyl-3-oxopropyl)-4-methyl-2-[(2S,3S)-3-methyl-2-[(1S,2S)-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxopropyl]-[1-(oxopropoxy)ethyl]amino]pentyl]-4-(thiabutyl)carbonylamino)-4-hydroxy- α -methyl-, (m, yb)- (CA INDEX NAME)

Absolute stereochemistry.



227 3498970-67-1 CAPLUS
CSB Benzene-1,4-diamine, γ -[[2-((1S,3R)-1-(4-methyl-3-oxopropyl)-4-methyl-2-[(2S,3S)-3-methyl-2-[(1S,2S)-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxopropyl]-[1-(oxopropoxy)ethyl]amino]pentyl]-4-(thiabutyl)carbonylamino)-4-hydroxy- α -methyl-, (m, yb)- (CA INDEX NAME)

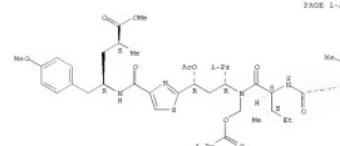
Absolute stereochemistry.



14 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
Kis IMP (Industrial manufacture); RCT (Reactant); SHM (Synthetic preparation); THER (Therapeutic use); BIOC (Biological study); PEP (Preparation); EACT (Reactant or reagent); OES (Oestrogenic effect); IPEC (Ipergonic effect); ENZY (enzymic hydrolysis) of manuf. of tubulinoly derivs. via acid or base cleavage of the ester side chain)

227 637236-88-7 CAPLUS
CSB Benzene-1,4-diamine, γ -[[2-((1S,3R)-1-(4-methyl-3-oxopropyl)-4-methyl-2-[(2S,3S)-3-methyl-2-[(1S,2S)-1-methyl-2-piperidinyl]carbonyl]amino)-1-oxopropyl]-[1-(oxopropoxy)ethyl]amino]pentyl]-4-(thiabutyl)carbonylamino)-4-hydroxy- α -methyl-, (m, yb)- (CA INDEX NAME)

Absolute stereochemistry.



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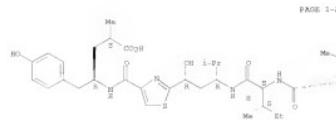
17 637236-88-9 CAPLUS
Kis IMP (Industrial manufacture); RCT (Reactant); SHM (Synthetic preparation); THER (Therapeutic use); BIOC (Biological study); PEP (Preparation); EACT (Reactant or reagent); OES (Oestrogenic effect); IPEC (Ipergonic effect); ENZY (enzymic hydrolysis) of manuf. of tubulinoly derivs. via acid or base cleavage of the ester side chain)

228 637236-88-9 CAPLUS

15 497236-88-TP, Tolakolain A methyl ether methyl ester

16 ANSWER 3 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 CH Benzenepentanoic acid, 4-hydroxy- γ -[(2-[1-(2,3)-1-hydroxy-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry: Rotation (-).



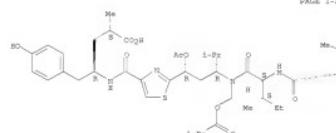
PAGE 1-B



PAGE 1-C

16 ANSWER 3 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 (gene cluster for enzymes of tubalymin biosynthesis of *Angiolecopus disciformis* encoding the enzymes of tubalymin biosynthesis and its use in制备 of tubalymins for therapeutic use)
 205304-98-3 CAPLOS
 CH Benzenepentanoic acid, γ -[[2-[1-(2,3)-1-(acetoxy)-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)-4-hydroxy- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry.



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16 ANSWER 3 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 CH Benzenepentanoic acid, γ -[[2-[1-(2,3)-1-(acetoxy)-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)-4-hydroxy- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 3 OF 7 CAPLOS
 CH Benzenepentanoic acid, γ -[[2-[1-(2,3)-1-(acetoxy)-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)-4-hydroxy- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 3 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 2004-216844 CARLOS
 DOCUMENT NUMBER: 1401268261
 TITLE: The gene cluster for enzymes of tubalymin biosynthesis

INVENTOR(S): Boelle, Gerhard; Mueller, Rolf; Sasse, Flotterod; Sandmann, Axel; Blecker, Helmut
 INSTITUTE: Leibniz-Institut für Molekulare Biotechnologie Forschung e.V., (GFB), Germany

DOCUMENT TYPE: PCT/EP/2003/07706
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:
 PATENT NO.: EPO DATE APPLICATION NO. DATE
 DE 102411152 A1 200409118 DE 2009-10241152 20090905

<-- WO 2004025298 A2 200409118 WO 2003-EP7706 20030903

<-- WO 2004021250 EPO 200411111 WO 2003-EP7706 20030903

W 2004021250 DE 102411152 A1 200409118 DE 2009-10241152 20090905

CH 2004021250 DE 102411152 A1 200409118 DE 2009-10241152 20090905

GB 2004021250 DE 102411152 A1 200409118 DE 2009-10241152 20090905

ES 2004021250 DE 102411152 A1 200409118 DE 2009-10241152 20090905

AU 2003236703E AU 20040229 A2 200409118 AU 2003-EP7706 20030903

<-- US 20040212740 A1 200409118 US 2005-205572 20051011

PRIORITY APPL. INFO.: DE 2002-10241152 A 20030903

<-- WO 2003-EP7706 W 20030903

AB The gene cluster of *Angiolecopus disciformis* encoding the enzymes of tubalymin biosynthesis and its use in制备 of tubalymins. The genes may be expressed in other hosts for the manufacture of tubalymins. The genes were identified by transposon mutagenesis.

IT 205304-98-3-EDP, Tubalymin A, analogs, derive, 205304-98-EDP

IT 205304-98-3-EDP, Tubalymin B, analogs, derive, 205304-98-TDE, Tubalymin C, analogs, derive, 205304-98-TDE

205304-98-3-EDP, Tubalymin D, analogs, derive, 205304-98-EDP

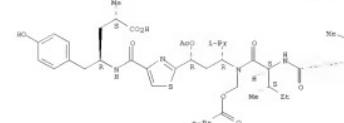
205304-98-3-EDP, Tubalymin E, analogs, derive, 205304-98-EDP

IT 205304-98-3-EDP, Tubalymin F, analogs, derive,

Ital. Res. Inst. Biomed. (Research Institute); TMR (Therapeutic use); RICL (Biological study); PRP (Preparation); USES (Uses)

16 ANSWER 3 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

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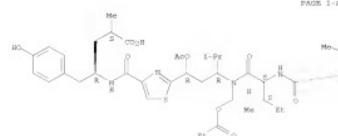
16 ANSWER 3 OF 7 CAPLOS
 CH Benzenepentanoic acid, γ -[[2-[1-(2,3)-1-(acetoxy)-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)-4-hydroxy- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry.

16 ANSWER 3 OF 7 CAPLOS
 CH Benzenepentanoic acid, γ -[[2-[1-(2,3)-1-(acetoxy)-4-methyl-3-[[[2S,2R]-3-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxoetyl]lantno[penyl]-4-thiazoyl]carbonyl]amino)-4-hydroxy- α -methyl-, (Me₂Ph) - (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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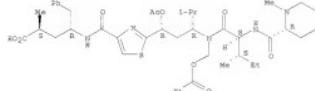


223 3Q9335-57-7 CAPLUS

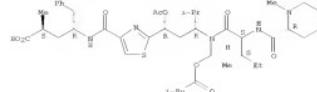
3Q9335-57-7 CAPLUS
[1-(2R,3S)-3-methyl-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine]-1-oxepetyl]([12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl)[12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine]-1-oxepetyl]([12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl) (CA INDEX NAME)3Q9335-57-7 CAPLUS
Absolute stereochemistry. Rotation (+).

16 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

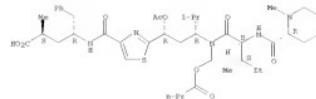
16 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



16 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

3H-309935-58-8 CAPLUS
Benzenepentanoic acid, γ -[[2-[[12R,3R]-1-(acetoxy)-4-methyl-3-oxepetyl]([12R]-1-methyl-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl][12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine]-1-oxepetyl]([12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl) (CA INDEX NAME)

Absolute stereochemistry.

3H-309935-58-8 CAPLUS
Benzenepentanoic acid, γ -[[2-[[12R,3R]-1-(acetoxy)-4-methyl-3-oxepetyl]([12R]-1-methyl-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl][12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine]-1-oxepetyl]([12R]-1-methoxy-2-[[12R]-1-methyl-2-(piperidinyl)carboxy]azetidine)-1-oxepetyl) (CA INDEX NAME)3H-309935-58-8 CAPLUS
Absolute stereochemistry.

16 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004-15154 CAPLUS

DOCUMENT NUMBER:

TITLE: Tubulinolytic conjugates with polymers or biopolymers, and use for the treatment of cancer

INVENTOR(S): Schmid, Ralf; Wenzel, Lutz

PATENT ASSIGNEE(S): Morphochem Aktiengesellschaft fuer Kombinatorische Chemie, Germany

SOURCE: CA 2004-15154; DE 2003-07415; 23 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY NO. / NMN. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | ENTD | DATE | APPLICATION NO. | DATE |
|--|------|------------------|-----------------|-----------|
| WO 2004053326 | A2 | 20040115 | WO 2003-EP7415 | 2003-0709 |
| DE 10230073 | A3 | 20040219 | | 2003-0709 |
| WO 2004053326 | A3 | 20040219 | DE 2003-103951 | 2003-0711 |
| DE 10230073 | A1 | 20040123 | DE 2003-253048 | 2003-0709 |
| EP 1521769 | A2 | 20050413 | EP 2003-762673 | 2003-0709 |
| DE 10230073 | A1 | 20040212 | EP 2003-762673 | 2003-0709 |
| DE 10230073 | A1 | 20040123 | US 2005-520795 | 2005-0108 |
| US 20050149740 | A1 | 20051110 | US 2005-520795 | 2005-0108 |
| PRIORITY APPL. INFO.: DE 2002-10230075 | A | 2002-0709 | | |
| | | DE 2003-10305571 | A | 2003-0211 |
| | | WO 2003-EP7415 | W | 2003-0709 |

OTHER SOURCE(S): MAPPENT 140:71010

The following disclosure describes tubulinolytic conjugates (e.g. of tubulinolytin A) with polymers or biopolymers (e.g. antibiotics) and the use thereof in the treatment of cancer.

17 DE 102-08-50, Tubulinolytin A, conjugates with polymers or biopolymers.

EP 102-08-50, Tubulinolytin A, conjugates with polymers or biopolymers.

(Pharmaceutical activity); TMR (Therapeutic use); SIGL (Biological activity); USES (Use);

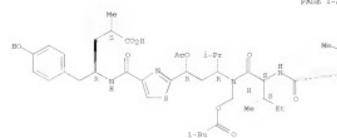
(tubulinolytic conjugates with polymers or biopolymers, and use for treatment of cancer)

3H-309935-58-8 CAPLUS

Benzenepentanoic acid, γ -[[2-[[12R,3R]-1-(acetoxy)-4-methyl-3-

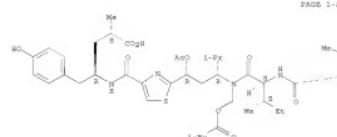
14 ANSWER 4 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 CH $\gamma\text{-}[[2-(1R,3S)-3-methyl-2-[(1R)-1-methyl-2-piperidinyl]carbonyl]amino]-3-$
 $\alpha\text{-oxo}-[[1-(methyl-1-oxodutoxy)methyl]amino]pentyl]-4-$
 $\beta\text{-thiisopropyl]carbonylamino}-4\text{-hydroxy-a-ethyl}-, (\text{ad}, \text{yR})-$
 (CA INDEX NAME)

Absolute stereochemistry:



14 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 CH $\gamma\text{-}[[2-(1R,3S)-3-methyl-2-[(1R)-1-(acetoxy)oxy]-4-methy-3-$
 $\alpha\text{-oxo}-[[1-(methyl-1-oxodutoxy)methyl]carbonyl]amino]-1-$
 $\beta\text{-thiisopropyl]carbonylamino}-4\text{-hydroxy-a-ethyl}-, (\text{ad}, \text{yR})-$
 (CA INDEX NAME)

Absolute stereochemistry:



14 200304-84-3 CAPLOS
 CH Benzenepentanoic acid, $\gamma\text{-}[[2-(1R,3S)-3-methyl-2-[(1R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-$
 $\alpha\text{-oxo}-[[2-(oxodutoxy)methyl]amino]pentyl]-4\text{-thiisopropyl]carbonylamino}-4-$
 $\beta\text{-hydroxy-a-ethyl}-, (\text{ad}, \text{yR})-$ (CA INDEX NAME)

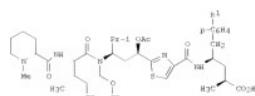
Absolute stereochemistry:

LE ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN
 ACQUISITION NUMBER: 2001794356 CAPLOS
 DOCUMENT NUMBER: 135131294
 TITLE: Preparation of stereospecific synthetic tubelysine
 ANSWER:

INVENTOR(S): Hildebrand, Leibheld, Thomas; Steinmetz, Heinrich
 Gesellschaft Fur Biotechnologische Forschung MbH
 (GmbH), Germany

SOURCE: DE 100000089
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACT. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | END DATE | APPLICATION NO. | DATE |
|---------------------------|----------|--|-------------------|
| DE 100000089 | A1 | 20001031 | DE 2000-100000089 |
| | | | 20000222 |
| PR. PRIORITY APPL. INFO.: | | | DE 2000-100000089 |
| OTHER SOURCE(S): | | CASREACT 135+331294; MARPAT 135+331294 | |
| CL: | | | |

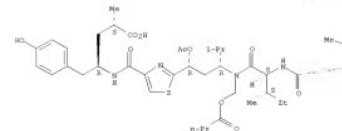


AB Methods for the stereospecific synthesis of tubelysins (I, II = $\text{CH}(\text{CH}_3)_2$, $\text{CH}(\text{CH}_3)_2\text{CO}$; III = $\text{H}_2\text{C=CH}_2$) and their intermediates and stereoisomers were claimed (no data). The absolute stereochemistry of tubelysins was determined. Steps in the preparation included reduction, alkylation, cyclization, and ring-opening of $\text{Hoc-H-3-methyl-5-oxopyrrolidin-2-one}$, which was prepared from HOOC-Phe-OH .

12 200304-85-5, Tubelysin A 205304-87-6, Tubelysin B 205304-88-7, Tubelysin C 302935-57-7, Tubelysin D 302935-58-8, Tubelysin E 36104-47-1, Tubelysin F 41-NOH 102000-00-0, α -methylbenzyl (MEB) (no data) (preparation of stereospecific synthetic tubelysines and intermediates)

LE ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A



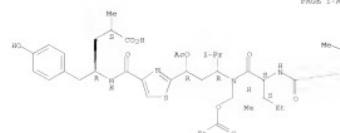
PAGE 1-B



14 200304-87-6 CAPLOS
 CH Benzenepentanoic acid, $\gamma\text{-}[[2-(1R,3S)-3-methyl-2-[(1R)-1-(acetoxy)oxy]-4-methy-3-$
 $\alpha\text{-oxo}-[[2-(oxodutoxy)methyl]amino]pentyl]-4\text{-thiisopropyl]carbonylamino}-1-$
 $\beta\text{-hydroxy-a-ethyl}-, (\text{ad}, \text{yR})-$ (CA INDEX NAME)

Absolute stereochemistry:

14 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



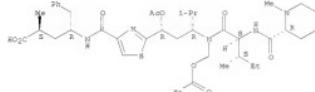
PAGE 1-B



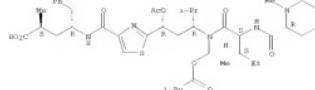
221 3Q9335-17-7 CAPLOS
CH Benzenepeptatinic acid, γ -[[[(2-[[18,23]-1-acetylacyl)-4-methyl-3-[[25,35]-3-methyl-2-[[128]-1-methyl-2-piperidinyl]carbonyl]amino]-1-acetylacyl]-1-(3-methyl-1-acetoxyacetyl)amino]pentyl]-4-thia-1-oxo-1-azabicyclo[2.2.1]hept-5-yl]- α -methyl-, (α , β)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

14 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

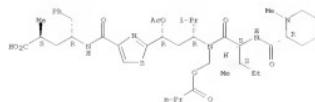


16 ANSWER 5 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



221 3Q9335-58-8 CAPLOS
CH Benzenepeptatinic acid, γ -[[[(2-[[18,23]-1-acetylacyl)-4-methyl-3-[[25,35]-3-methyl-2-[[128]-1-methyl-2-piperidinyl]carbonyl]amino]-1-acetylacyl]-1-(3-methyl-1-acetoxyacetyl)amino]pentyl]-4-thia-1-oxo-1-azabicyclo[2.2.1]hept-5-yl]- α -methyl-, (α , β)- (CA INDEX NAME)

Absolute stereochemistry.



221 3Q9335-47-2 CAPLOS
CH Benzenepeptatinic acid, γ -[[[(2-[[18,23]-1-(acetylacyl)-4-methyl-3-[[25,35]-3-methyl-2-[[128]-1-methyl-2-piperidinyl]carbonyl]amino]-1-acetylacyl]-1-(3-methyl-1-acetoxyacetyl)amino]pentyl]-4-thia-1-oxo-1-azabicyclo[2.2.1]hept-5-yl]- α -methyl-, (α , β)- (CA INDEX NAME)

Absolute stereochemistry.

14 ANSWER 6 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

14 ANSWER 6 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

ACCESSION NUMBER: 2000-702489 CAPLOS
DOCUMENT NUMBER: 721541
TITLE: Tubulinysins, new cytostatic peptides from mycobacteria acting on microtubuli. Production, isolation, characterization and biological activity of tubulinysins A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.
AUTHOR(S): Sasse, Florenz; Steinmetz, Heinrich; Heil, Jürgen; Höfler, Gerhard; Helmreich, Hans
CORPORATE SOURCE: Deutsche Gesellschaft für Biotechnologische Forschung mbH
SUBJECTS:

SOURCES: Akademie der Naturforschende, Braunschweig, D-38124, Germany
Journal of Antibiotics (2000), 53(9), 621-626

PUBLISHER: CODEN: JANPAJ; ISSN: 0021-8820
Japan Antibiotic Research Association

DOCUMENT TYPE: Article
LANGUAGE: English

AB: New cytostatic compds., tubulinysins, were isolated from the culture broth of cultures of the mycobacteria *Achromatium spaffordii* and *Ankistrocerus disciformis*. The compds. are peptides partly consisting of unusual amino acids and partly of standard amino acids. Tubulinysins A-E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z showed moderate activity against bacteria and only little against fungi, but showed

high cytostatic activity against mammalian cell lines with IC50 values in the picomolar range. An incubation with 50 nM tubulinysin A led to a complete disappearance of the microtubuli network of the cells within 24 h. In contrast, the tubulinolytic agent colcemid caused depolymerization at 0.5 ng/ml all mitotic cells showed more than four spindle poles.

17 205-86-1P, Tubulinysin A 3Q9335-47-2P, Tubulinysin B 3Q9335-7-7, Tubulinysin C 3Q9335-58-8, Tubulinysin D 3Q9335-17-7, Tubulinysin E 3Q9335-8-9, Tubulinysin F 3Q9335-9-0, Tubulinysin G 3Q9335-10-1, Tubulinysin H 3Q9335-11-2, Tubulinysin I 3Q9335-12-3, Tubulinysin J 3Q9335-13-4, Tubulinysin K 3Q9335-14-5, Tubulinysin L 3Q9335-15-6, Tubulinysin M 3Q9335-16-7, Tubulinysin N 3Q9335-17-8, Tubulinysin O 3Q9335-18-9, Tubulinysin P 3Q9335-19-0, Tubulinysin Q 3Q9335-20-1, Tubulinysin R 3Q9335-21-2, Tubulinysin S 3Q9335-22-3, Tubulinysin T 3Q9335-23-4, Tubulinysin U 3Q9335-24-5, Tubulinysin V 3Q9335-25-6, Tubulinysin W 3Q9335-26-7, Tubulinysin X 3Q9335-27-8, Tubulinysin Y 3Q9335-28-9, Tubulinysin Z 3Q9335-29-0.

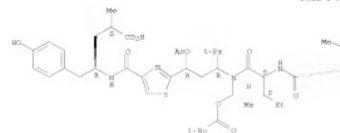
18 205-86-1P, CAPLOS
CH Benzenepeptatinic acid, γ -[[[(2-[[18,23]-1-(acetylacyl)-4-methyl-3-[[25,35]-3-methyl-2-[[128]-1-methyl-2-piperidinyl]carbonyl]amino]-1-acetylacyl]-1-(3-methyl-1-acetoxyacetyl)amino]pentyl]-4-thia-1-oxo-1-azabicyclo[2.2.1]hept-5-yl]- α -methyl-, (α , β)- (CA INDEX NAME)

Absolute stereochemistry.

12/07/2008

10-535,630.trn

14 ANSWER 6 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



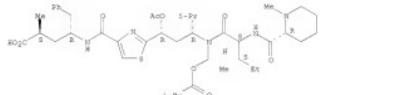
PAGE 1-A

PAGE 1-B



Absolute stereochemistry.

14 ANSWER 6 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

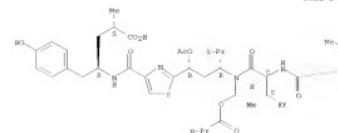


220 22334-57-6 CAPLOS
221 Benzeneperpanoic acid, γ -[[2-[(1R,2R)-3-(acetoxy)-4-methyl-3-
[[2(R,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
oxoetyl][1-(acetoxy)ethyl]amino]pentyl]-4-(thiazolyl)carbonyl]amino]-4-
hydroxy- α -methyl-, (4S,5R)- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

16 ANSWER 6 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



PAGE 1-A

PAGE 1-B



220 22334-57-6 CAPLOS
221 Benzeneperpanoic acid, γ -[[2-[(1R,2R)-3-(acetoxy)-4-methyl-3-
[[2(R,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-
oxoetyl][1-(acetoxy)ethyl]amino]pentyl]-4-(thiazolyl)carbonyl]amino]-4-
hydroxy- α -methyl-, (4S,5R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

16 ANSWER 7 OF 7 CAPLOS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998-208578 CAPLOS

DOCUMENT NUMBER: 12850797a,50798

ORIGINAL PUBLICATION: Antineoplastic and cytostatic compounds manufacture with

INVENTOR(S): Reichenbach, Hans; Hoefle, Gerhard; Sasse, Florenz;

Steinmetz, Heinrich

PATENT ASSIGNEE(S): Boehringer Ingelheim Biotechnologische Forschung m.b.H.

SOURCE: GERMANY

DOCUMENT TYPE: Patent

DATE: 1998-03-16 pp.

COUNTRY: GERMANY

FAMILY ACC. NBR. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------|------|----------|------------------|----------|
| DE 199838870 | A1 | 19980316 | DE 1998-19638870 | 19980923 |

| CITE | WO 9813373 | AI | 19990402 | NO 1997-EP5095 | 19970921 |
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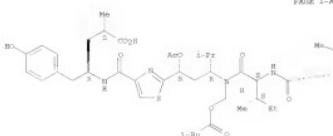
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14 ANSWER T OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
[[[2S,3S]-1-methyl-2-[[[2R]-1-methyl-3-piperidinyl]carbonyl]amino]-3-
oxopyrrolidinyl]1-[3-methyl-1-oxidoxyethyl]amino]pentyl]-4-
thiazolyl]carbonyl]amino)-4-hydroxy-a-methyl-, (4*S*,*yR*)-
(CA INDEX NAME)

Absolute stereochemistry:



PAGE 1-A

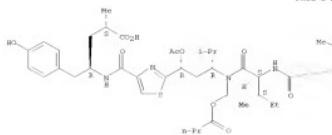
PAGE 1-B

22 225304-88-6 CAPLOS
Benzenehexanoic acid, γ -[[2-[[13,13]-1-(acetoxy)-4-methyl-3-
[[2S,3S]-1-methyl-2-[[[2R]-1-methyl-2-piperidinyl]carbonyl]amino]-1-
oxopyrrolidinyl]1-[1-oxidoxyethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino)-4-
hydroxy-a-methyl-, (4*S*,*yR*)- (CA INDEX NAME)

Absolute stereochemistry:

16 ANSWER T OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
[[[2S,3S]-1-methyl-2-[[[2R]-1-methyl-3-piperidinyl]carbonyl]amino]-3-
oxopyrrolidinyl]1-[3-methyl-1-oxidoxyethyl]amino]pentyl]-4-
thiazolyl]carbonyl]amino)-4-hydroxy-a-methyl-, (4*S*,*yR*)-
(CA INDEX NAME)

PAGE 1-A



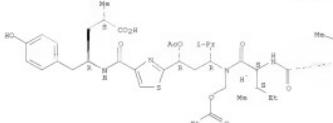
PAGE 1-B

23 205304-88-7 CAPLOS
CH methyl-2-[[[2R]-1-methyl-3-[[[2S,3S]-1-methyl-2-piperidinyl]carbonyl]amino]-1-
oxopyrrolidinyl]1-[1-oxidoxyethyl]amino]pentyl]-4-thiazolyl]carbonyl]amino)-4-
hydroxy-a-methyl-, (4*S*,*yR*)- (CA INDEX NAME)

Absolute stereochemistry:

14 ANSWER T OF 7 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

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PAGE 1-B



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